

MOOG

VIDEOLARM

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PB24L900

Rugged Wireless Power Box

www.videolarm.com

Installation and Operation Instructions for the following model:

PB24L900

A rugged outdoor wireless box, with a 220/110Vac input and 24Vac output for camera, fuse protected. With a wireless 900MHz transmitter and matching receiver. Omni directional antenna.

Before attempting to connect or operate this product, please read these instructions completely.

81-IN5381
01-23-2012

IMPORTANT SAFEGUARDS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with damp cloth.
- 7 Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- 8 Cable Runs- All cable runs must be within permissible distance.
- 9 Mounting - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

Accordingly:

- a. The installation should be made by a qualified installer.
 - b. The installation should be in compliance with local codes.
 - c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit.
- 10 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 - 11 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 - 12 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 - 13 Only use attachment/ accessories specified by the manufacturer.
 - 14 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
 - 15 Unplug this apparatus during lighting storms or when unused for long periods of time.
 - 16 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

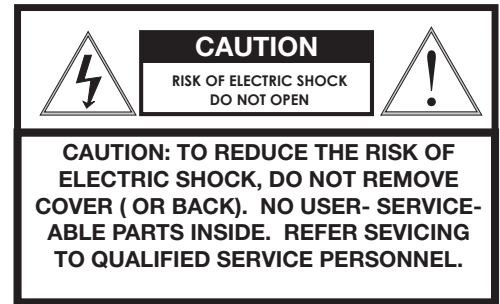
- 1 The shipping carton and packaging material.
They are the safest material in which to make future shipments of the equipment.
- 2 These Installation and Operating Instructions.

SERVICE

If technical support or service is needed, contact us at the following number:

TECHNICAL SUPPORT
AVAILABLE 24 HOURS
1- 800 - 554 -1124

SAFETY PRECAUTIONS



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.

Este símbolo se piensa para alertar al usuario a la presencia del "voltaje peligroso no-aislado" dentro del recinto de los productos que puede ser un riesgo de choque eléctrico.

Ce symbole est prévu pour alerter l'utilisateur à la présence "de la tension dangereuse" non-isolée dans la clôture de produits qui peut être un risque de choc électrique.

Dieses Symbol soll den Benutzer zum Vorhandensein der nicht-Isolier "Gefährdungsspannung" innerhalb der Produkteinschließung alarmieren die eine Gefahr des elektrischen Schlages sein kann.

Este símbolo é pretendido alertar o usuário à presença "di tensão perigosa non-isolada" dentro do cerco dos produtos que pode ser um risco de choque elétrico.

Questo simbolo è inteso per avvertire l'utente alla presenza "di tensione pericolosa" non-isolata all'interno della recinzione dei prodotti che può essere un rischio di scossa elettrica.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Este símbolo del punto del exclamation se piensa para alertar al usuario a la presencia de instrucciones importantes en la literatura que acompaña la aplicación.

Ce symbole de point d'exclamation est prévu pour alerter l'utilisateur à la présence des instructions importantes dans la littérature accompagnant l'appareil.

Dieses Ausruf Punktsymbol soll den Benutzer zum Vorhandensein de wichtigen Anweisungen in der Literatur alarmieren, die das Gerät begleitet.

Este símbolo do ponto do exclamation é pretendido alertar o usuário à presença de instruções importantes na literatura que acompanha o dispositivo.

Questo simbolo del punto del exclamation è inteso per avvertire l'utente alla presenza delle istruzioni importanti nella letteratura che accompagna l'apparecchio.



Limited Warranty for Moog Videolarm Products

Moog Videolarm warrants these products to be free from defects in material or workmanship as follows:

PRODUCT CATEGORY	PARTS \ LABOR
All Enclosures and Electronics*	Five (5) Years
Poles/PolEvators™/CamEvator	Three (3) Years
Warrior Series™/Q-View™/IR Illuminators	Five (5) Years
SView Series™	Five (5) Years **6 months if used in auto scan/tour operation
Controllers	Five (5) Years
Power Supplies	Five (5) Years
EcoKit	Three (3) Years
Accessory Brackets	Five (5) Years
Liberty Dome	Three (3) Years
*DeputyDome™, NiteTrac™, Igloo Dome, PurgeDome™	Three (3) Years **6 months if used in auto scan/tour operation

During the labor warranty period, to repair the Product, Purchaser will either return the defective product, freight prepaid, or deliver it to Moog Videolarm Inc. Decatur GA. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection with a RMA # (Return Materials Authorization number) displayed on the outer box or packing slip. To obtain a RMA# you must contact our Technical Support Team at 800.554.1124, extension 101. Moog Videolarm will return the repaired Product freight prepaid to Purchaser. Moog Videolarm is not obligated to provide Purchaser with a substitute unit during the warranty period or at any time. After the applicable warranty period, Purchaser must pay all labor and/or parts charges.

The limited warranty stated in these product instructions is subject to all of the following terms and conditions.

TERMS AND CONDITIONS

1. NOTIFICATION OF CLAIMS: WARRANTY SERVICE: If Purchaser believes that the Product is defective in material or workmanship, then written notice with an explanation of the claim shall be given promptly by Purchaser to Moog Videolarm. All claims for warranty service must be made within the warranty period. If after investigation Moog Videolarm determines the reported problem was not covered by the warranty, Purchaser shall pay Moog Videolarm for the cost of investigating the problem at its then prevailing per incident billable rate. No repair or replacement of any Product or part thereof shall extend the warranty period of the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product parts warranty, whichever is greater.

2. EXCLUSIVE REMEDY: ACCEPTANCE: Purchaser's exclusive remedy and Moog Videolarm's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts.

3. EXCEPTIONS TO LIMITED WARRANTY: Moog Videolarm shall have no liability or obligation to Purchaser with respect to any Product requiring service during the warranty period which is subjected to any of the following: abuse, improper use, negligence, accident, lightning damage or other acts of God (i.e., hurricanes, earthquakes), modification, failure of the end-user to follow the directions outlined in the product instructions, failure of the end-user to follow the maintenance procedures recommended by the International Security Industry Organization, written in product instructions, or recommended in the service manual for the Product. Furthermore, Moog Videolarm shall have no liability where a schedule is specified for regular replacement or maintenance or cleaning of certain parts (based on usage) and the end-user has failed to follow such schedule; attempted repair by non-qualified personnel; operation of the Product outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. Moog Videolarm excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS and excludes used Products which have not been sold by Moog Videolarm to the Purchaser. All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product. Any cost associated with removal of defective product and installation of replacement product is not included in this warranty.

4. PROOF OF PURCHASE: The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, Moog Videolarm HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY AND/OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE STATUTE. Moog Videolarm HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY THAT THE PRODUCT IS COMPATIBLE WITH ANY COMBINATION OF NON-Moog Videolarm PRODUCTS OR NON-Moog Videolarm RECOMMENDED PRODUCTS PURCHASER MAY CHOOSE TO CONNECT TO THE PRODUCT.

LIMITATION OF LIABILITY

THE LIABILITY OF Moog Videolarm, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL Moog Videolarm BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

PB24L900 Power Box

DESCRIPTION

PB24L900 is an 84vA Power Supply, designed for either 230Vac or 115vac input with 24Vac output. The unit includes a 900MHz wireless transmitter and matching receiver with an omni-directional antenna.



CAUTION! These servicing instructions are for use by qualified personnel only. To reduce risk of electric shock

DO NOT perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

ELECTRICAL SPECIFICATIONS:

Input Power: 120Vac/240Vac 1A/.5A

Power Consumption: 1Amp (120watts) at 120Vac

Power Output: 84VA at 24Vac, 52watts Heater/Blower, 32watts
Camera Power



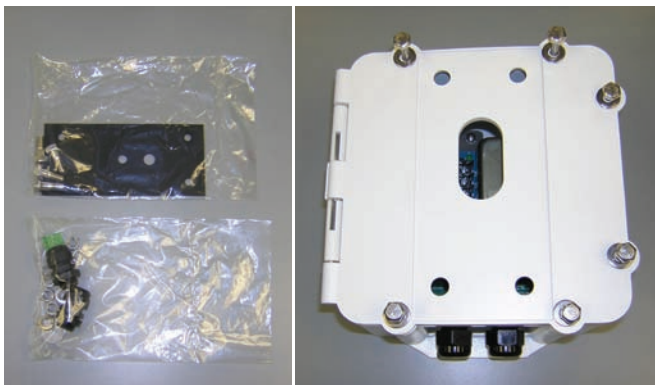
An all pole main switch with a contact of at least 3mm in each pole shall be incorporated in the electrical installation of the building.

GENERAL INSTRUCTIONS:

Tools Required (minimum)

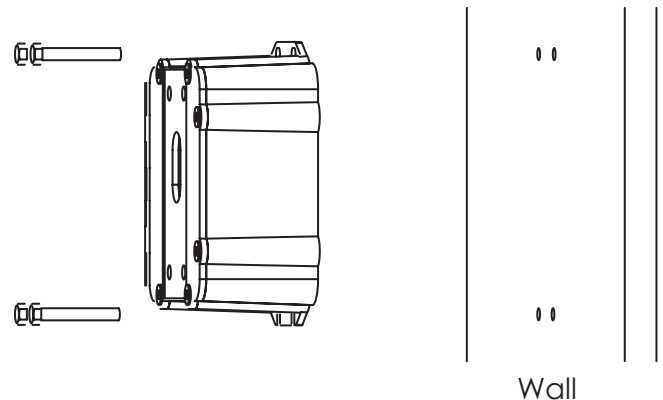
.150" Flathead Screwdriver, 7/16" wrench or socket, 9/16" wrench or socket

Included with the PB24 are the following items:



Wall Mounting:

A template is provided in the back of the instruction with the 2 x 8 bolt pattern required for the mounting of this product. Hardware is not provided for mounting this unit to the wall.



Attach the unit securely with (4) fasteners **(not supplied)**.

Unit is designed to accept either 5/16"- 3/8" or 8mm hardware.

Each fastener should be able to withstand a minimum pull out force of 600 lbs. (272kg)

Pole Mounting:

Optional pole mount brackets are available for the PB24. Pole adapter Part Number is PBAP3.

Connecting Housing to PB24:

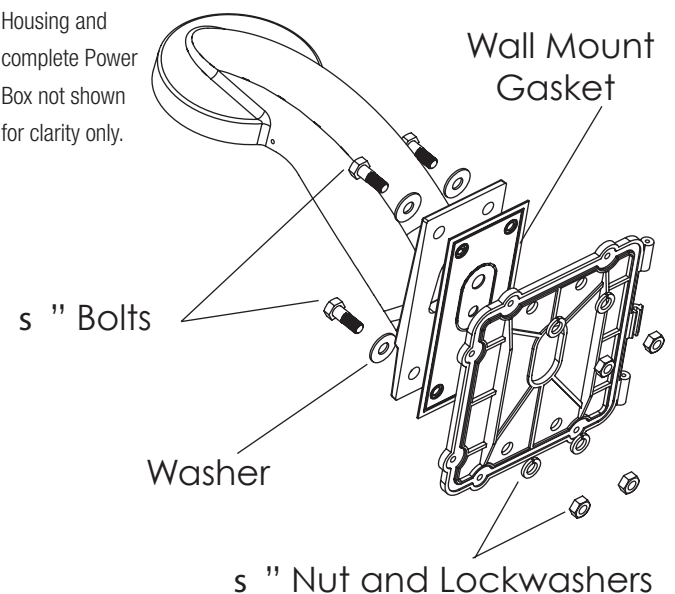
Open the packet assembly that is provided with each unit. Special "s" bolts are provided and designed to mount either the WM20G or the WM10 (Standard Fusion Dome and Rugged Housing wall mount bracket) to the Power Box. Attach the wall mount bracket and housing as shown below. Push the cable assembly connectors through either of the (2) holes provided.



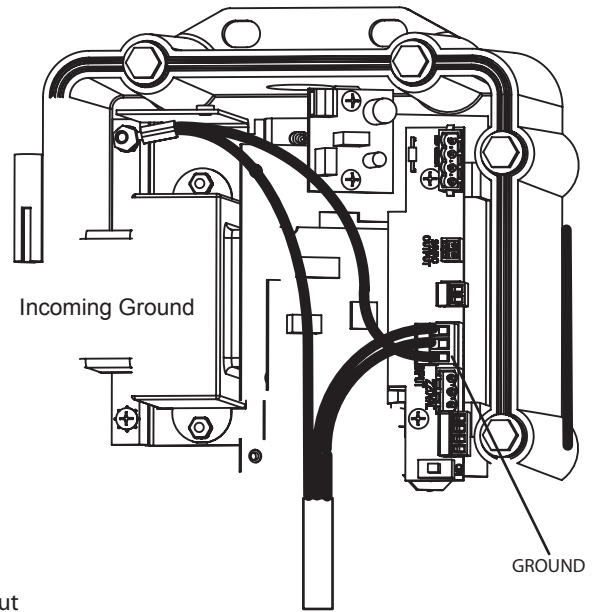
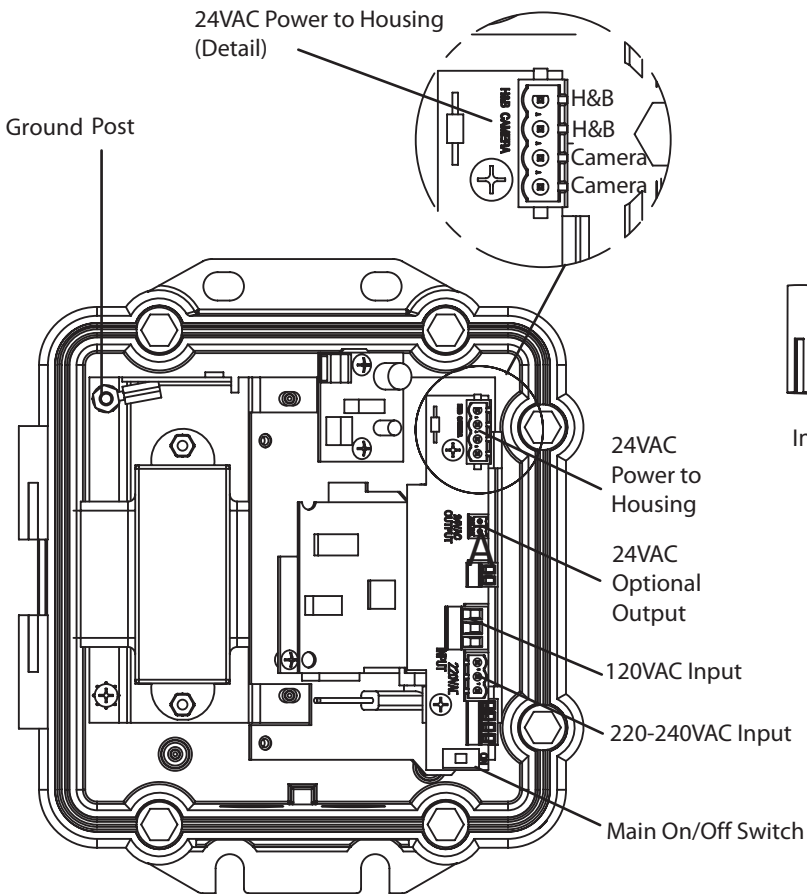
IMPORTANT! Unit will not seal properly unless installed as shown. Do not attempt to use power box without installing wall mount gasket.

NOTE:

Housing and complete Power Box not shown for clarity only.



Connecting Power:



CONNECTING POWER

Input: (120Vac or 240Vac)

The Power Box provides 2 separate power output(s) at 24V. The Power Box is designed for either 120 or 240Vac input single phase. A single (3) position connector is provided with each unit. Line and Neutral Wires should be connected as marked on the connection board (L and N) and plugged in to the connector plug of the corresponding voltage. Connect incoming ground to ground post as shown above.



Installation should be made by qualified personnel only, in accordance to local building codes. Input power connections should be made via conduit. **Use flex LTF fittings for output only.**

Output: (24Vac)



NOTE: Internal re-settable fuses are supplied for the main 24Vac output lines. Fuse protection is higher for accessory power. Do not connect heater and blowers to camera power output (marked Camera) on Connection pcb.

NOTE: 3 PHASE SYSTEMS



The PB24 is **NOT** designed for 3 Phase or 208V systems. If a three-phase or 208V system is in place, use volt meter to select one phase 120Vac LEG and connect to the 120Vac connection.

Finishing the Installation:

Once all wiring connections are completed; turn power the PB24 on and move power switch to on position to ON position. Power LED on the connection pcb should turn on.

Before closing the door on the PB24 check the main gasket around the lip of the power box and be sure it is positioned within the groove provided. Close unit and secure with (6) captive bolts provided. If needed (2) security screws are provided to lock and prevent tapering with internal components of the box. To install, remove (2) of the existing bolts and replace with (2) tamperproof security screws provided in the housing packet. Tighten with security wrench provided.

WIRELESS SETUP

Once the dome is installed and power is connected to it, the wireless master unit must be installed. Below is the basic setup for the master RF unit. Please see the antenna installation section for proper antenna usage.

BASIC SETUP

- 1. Plug in the AC Power to the Power over Ethernet Injectors
- 2. Plug in the CAT5 cable from each WIRELESS UNIT into the injectors. (NOTE: This unit can use both crossover cable and straight patch through cables.)
- 3. Connect the Ethernet cable from each injector into the Ethernet.
- 4. Use site survey mode to orient the antenna direction, and if necessary manually select the best channel

Each WIRELESS Master pair automatically selects the best radio channel, encrypts the Ethernet traffic and transports the data wirelessly to and from the wireless dome.

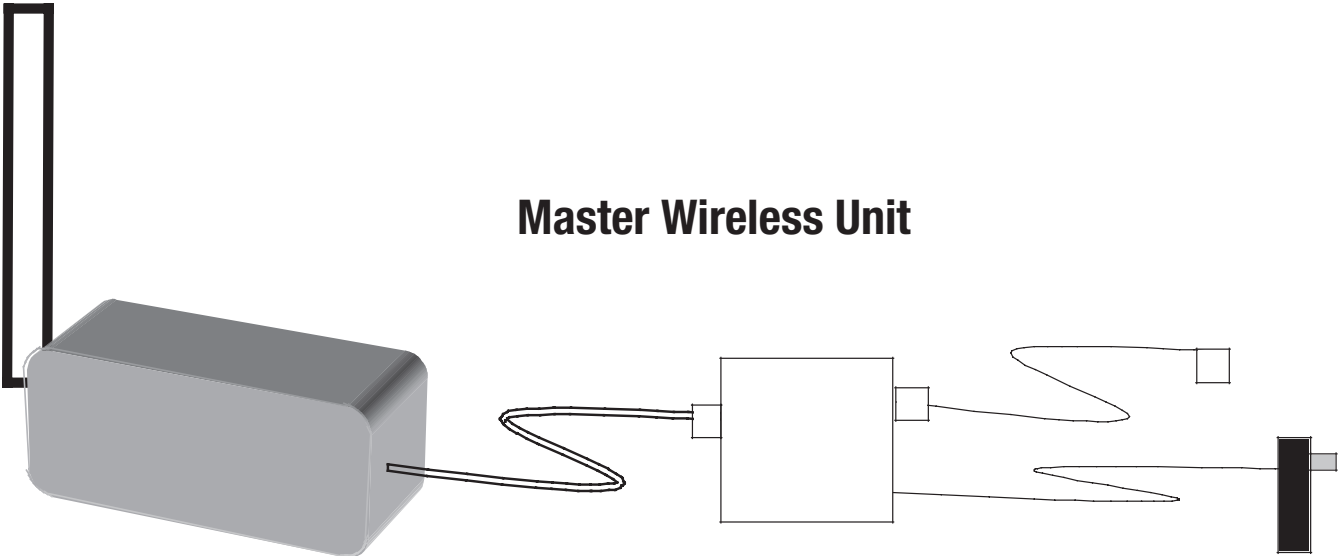
The wireless unit functions in place of an Ethernet cable and provides a transparent wireless point-to-point Ethernet cable replacement. Crossover cables are not necessary as the WIRELESS UNIT automatically senses the device (client or switch).

LED display:

Once the unit is operational, you should see the following colors on the LEDs of the wireless unit.

LED	Name	Function	Color
1	Power	Unit has power and has successfully booted.	Red
2	RF Link	The radio has successfully linked with its partner.	Green
3	RF TX	Radio transmission is occurring.	Green
4	RF RX	Radio reception is occurring.	Green
5	Eth Link	The Ethernet Port has a valid Ethernet connection	Green
6	Activity	The WIRELESS UNIT is processing data	Green
7	1 channel)	By adding the numbers that are lit the user can determine the current radio channel. 1 903 MHz 2 905 MHz 3 907 MHz 4 909 MHz 5 911 MHz 6 913 MHz 7 915 MHz 8 917 MHz 9 919 MHz 10 921 MHz 11 923 MHz 12 925 MHz	Green
8	2 channel)		
9	4 (channel)		
10	8 channel)		
11	Link Quality	Excellent link quality – No retransmissions	Green
12	Link Quality	Very good link quality – Few retransmissions	Green
13	Link Quality	Good link quality – Some retransmissions	Amber
14	Link Quality	Fair link quality – Many retransmissions	Amber
15	Link Quality	Weak link quality – Some packet failures	Red
16	Link Quality	Poor link quality	Red

The WIRELESS UNIT has a 16 LED display (see above chart) to display the status of the device.



Master Wireless Unit

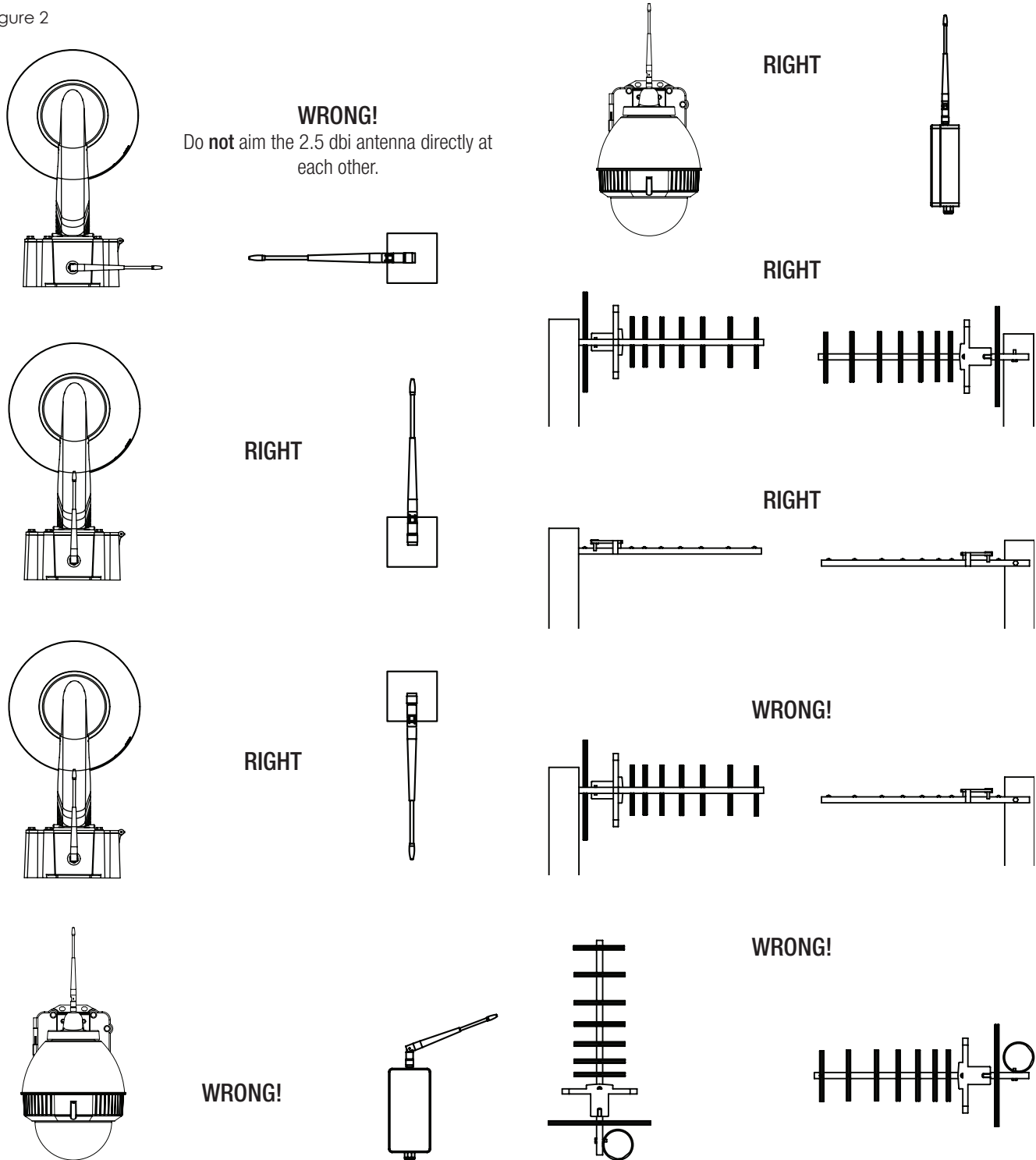
INSTALLATION:

Once you have installed the antennas on the dome and master unit. You need to aim the antennas so they are aligned with each other and they both have the same polarity. If the antennas are too far away for visual alignment or there is obstacle in the way, please refer to “site survey mode” listed on page 8 of this manual. Figure 2 shows some correct and incorrect methods of aligning the antennas. The 2.5dbi antenna is considered omni directional. They are designed so the radio wave will project out from the sides of the antennas. The radio wave pattern will resemble a doughnut. Because of this patter you

should never try to point the ends of the antenna directly toward one another or directly away from one another. The 11dbi antennas are directional. They are designed so the radio wave will project directly out the front of the antenna. Because of this you should always point the 11dbi antennas directly at each other and never point them away from each other. For a maximum range point-to-point (one unit). Videolarm recommends utilizing the auto-channel selection mode and maximum gain of 11dBi. **Please refer to chart below.**

Number of Pan and tilt unit	DIP Setting	Antenna	Channel	Polarization	Frequency
1	All Off	11dBi	Auto 1-12	Vertical or Horizontal	903-925 MHz

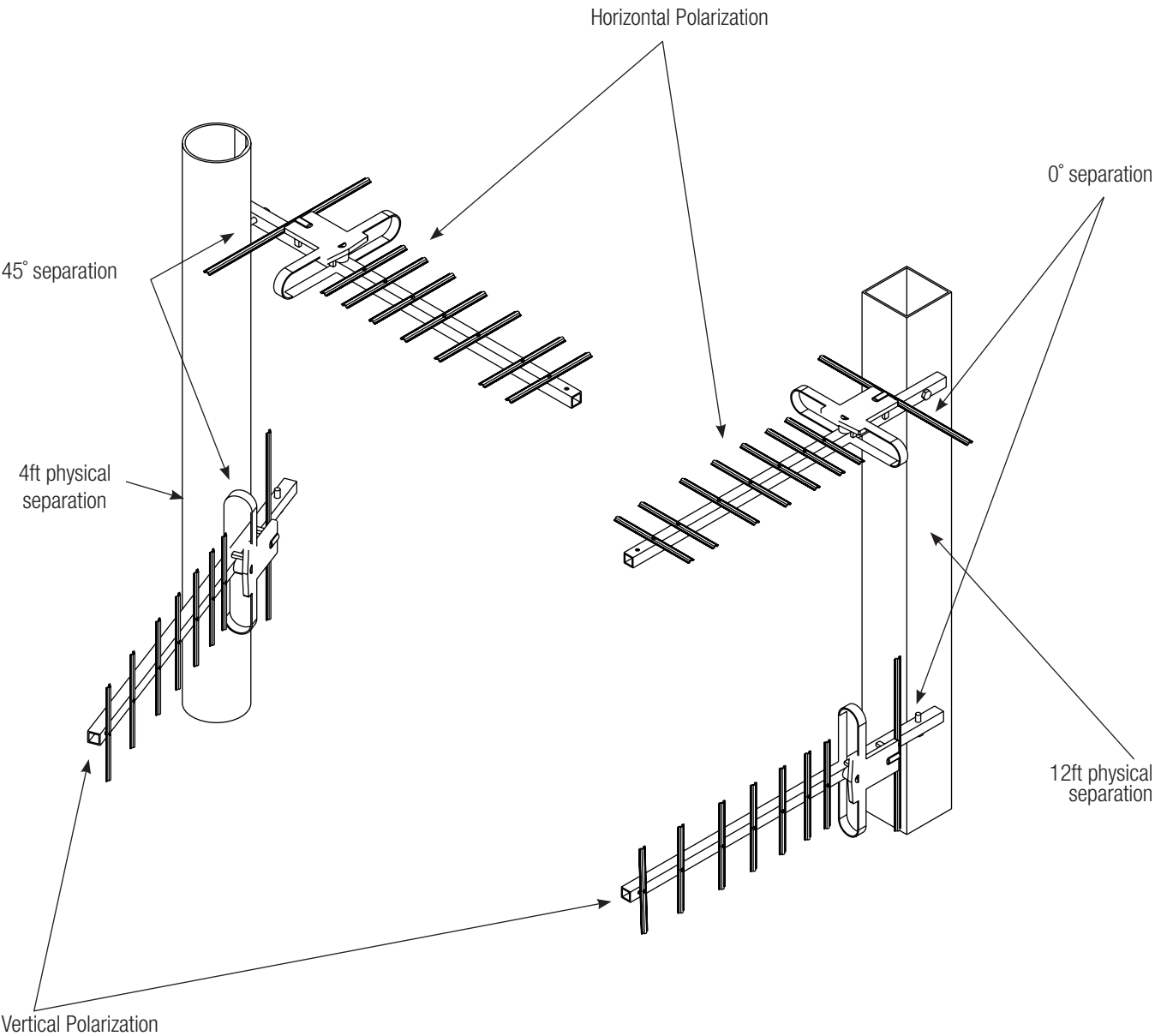
Figure 2



INSTALLING MULTIPLE ANTENNAS:

When installing more than one wireless unit in the same location, it is important to make sure that great care is taken to insure that the radio frequencies (channels) are properly spaced apart. For tower applications with two or three wireless master units in close proximity on the same pole, Videolarm recommends utilizing the manual channel mode; antenna gain of 11dBi and mixed polarization between antennas. It is recommended that antennae maintain a minimum of 4 ft of physical separation and are oriented with greater than 45° of angular separation. If 45° of angular separation cannot be met, then it is recommend a minimum of 12 ft of physical separation.

Master unit	DIP Setting	Antenna	Channel	Polarization	Frequency
1	2 On / 3 Off	11dBi	Auto 1,2,3 or 4	Horizontal	903-909 MHz
2	2 On / 3 On	11dBi	Auto 9,10,11 or 12	Vertical	919-925 MHz
3	2 Off / 3 On	11dBi	Auto 5,6,7 or 8	Horizontal	911-917 MHz



Up to 12 Radios –

Advanced tower installations with many pan and tilt units will require careful planning and assessment by a qualified radio technician. Videolarm recommends utilizing the manual channel mode; antennae gain of 11dBi and mixed polarization between channels. It is recommended that antennae maintain a minimum of 4 ft of physical separation and are oriented with greater than 45° of angular separation. If 45° of angular separation cannot be met, then it is recommend a minimum of 12 ft of physical separation. Antenna polarization should be utilized to minimize adjacent channel saturation. Off-riggers and/or cavity filters might be necessary to achieve maximum range with all 12 radios operating simultaneously from the same tower. **Please refer to the chart below.**

Master unit	DIP Setting	Antenna	Channel	Polarization	Frequency
1	5 On / 6 Off / 7 Off / 8 Off	11dBi	Fixed 1	Horizontal	903 MHz
2	5 On / 6 On / 7 On / 8 Off	11dBi	Fixed 7	Vertical	915 MHz
3	5 Off / 6 Off / 7 On / 8 On	11dBi	Fixed 12	Horizontal	925 MHz
4	5 On / 6 On / 7 Off / 8 Off	11dBi	Fixed 3	Vertical	907 MHz
5	5 On / 6 Off / 7 Off / 8 On	11dBi	Fixed 9	Horizontal	919 MHz
6	5 On / 6 Off / 7 On / 8 Off	11dBi	Fixed 5	Vertical	911 MHz
7	5 On / 6 On / 7 Off / 8 On	11dBi	Fixed 11	Horizontal	923 MHz
8	5 Off / 6 On / 7 Off / 8 Off	11dBi	Fixed 2	Vertical	905 MHz
9	5 Off / 6 Off / 7 Off / 8 On	11dBi	Fixed 8	Horizontal	917 MHz
10	5 Off / 6 Off / 7 On / 8 Off	11dBi	Fixed 4	Vertical	909 MHz
11	5 Off / 6 On / 7 On / 8 Off	11dBi	Fixed 6	Horizontal	913 MHz
12	5 Off / 6 On / 7 Off / 8 On	11dBi	Fixed 10	Vertical	921 MHz

FAQ (Frequently Asked Questions)

1. What is the maximum number of Ethernet devices that can transmit across the link?

There is no limit to the number of client devices whose Ethernet traffic can be transported. The WIRELESS DOME supports an unlimited number of MAC addresses across the link.

2. Does your product have an IP address or MAC address?

The WIRELESS Pair has no MAC address, no IP address and no web interface. It operates in place of a wire to send Ethernet traffic across the RF link in both directions.

3. What is the recommended antenna polarity?

Videolarm generally recommends horizontal polarization for most applications.

Most jamming noise sources in or near 900MHz utilize vertical polarization. Our experience indicates that successful installations often perform better with horizontal polarization. The WIRELESS DOME will support horizontal and vertical installations (the wall mount bracket does not currently support horizontal installation but can be easily modified to enable horizontal polarization).

4. How do I use the Site Survey Mode to fine-tune the radio performance?

Radio noise is always a challenge for wireless systems, particularly those in unlicensed bands. The WIRELESS Master has a built in site survey mode that allows the installer to manually select any of the 12 channels and evaluate the link performance by reading the LED link quality display. This mode sends simulated Ethernet traffic over the radio link and reports the bit error rate (BER). This can be used to assist in the alignment of antennas or to determine if there are in band or adjacent band interferers. The link performance may show reduced link quality on channels 1 or 12 due to adjacent channel noise. Under normal operation the WIRELESS Master automatically chooses a channel with Strong link quality and will avoid channels that have poor performance.

5. Does your product include network-based management tools?

The WIRELESS Dome has built-in intelligent frequency agility. Upon receiving RF interference, this allows the radio link to automatically change to a quieter channel based on continuously monitoring of its own Bit Error Rate. With the channel selection feedback loop running, the radio is able to always optimize the link without user intervention. During installation we encourage testing of the radio link by using site survey mode (DIP 4 ON). This testing will ensure that the radio has found channel(s) that achieve a low BER. Once the link is tested, the user can turn off DIP 4 and let the link run autonomously. The user then can ping a client device on the other side of the link to ensure the radio is in continual operational.

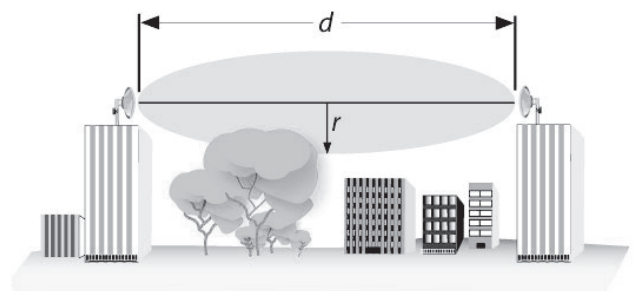
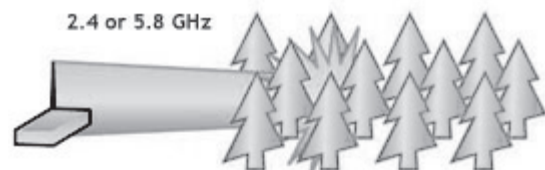
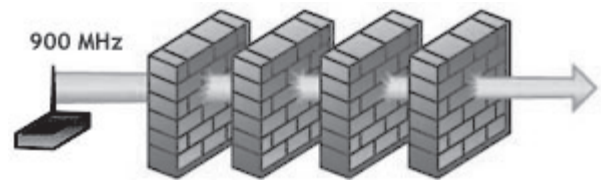
6. Why is 900 MHz better than 2.4 or 5.8 GHz 802.11 for Non-Line-of-Sight applications?

The improved propagation characteristics of lower frequency RF energy has been well documented for years. The 2.4 GHz and 5.8 GHz (802.11) frequencies are excellent baseband carriers for clear line-of-sight conditions, however, they do not propagate well through solids such as building walls, trees or over large expanses of water.

The trade-offs are bandwidth vs. distance traveled - 802.11 can support higher throughput (up to 54Mbps) but cannot travel far or through obstacles. By contrast, Videolarm 900MHz technology can travel much greater distances through solids or air for that matter, but can only support a 1.5 Mbps data rate (when the band is divided into 12 channels - 2 MHz each).

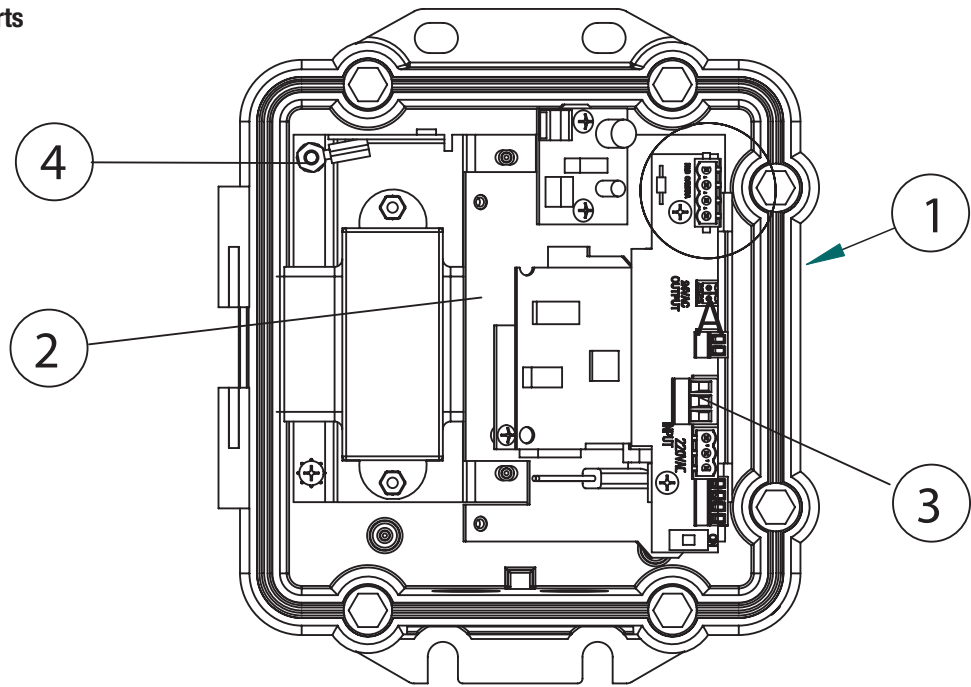
7. What is the Fresnel zone?

The Fresnel Zone is the area around the visual line-of-sight that radio waves spread out into after they leave the antenna. Typically, 20% Fresnel Zone blockage introduces little signal loss to the link. Beyond 40% blockage, signal loss will become significant. This calculation is based on a flat earth. It does not take the curvature of the earth into consideration. The effect of this is to budge the earth in the middle of the link. It is recommended for long links to have a microwave path analysis done that takes this and the topography of the terrain into account.



$$r_{(\text{in mts})} = 17.32 \times \sqrt{\frac{d_{(\text{in Km})}}{4f_{(\text{in GHz})}}} \quad r_{(\text{in ft})} = 72.05 \times \sqrt{\frac{d_{(\text{in miles})}}{4f_{(\text{in GHz})}}}$$

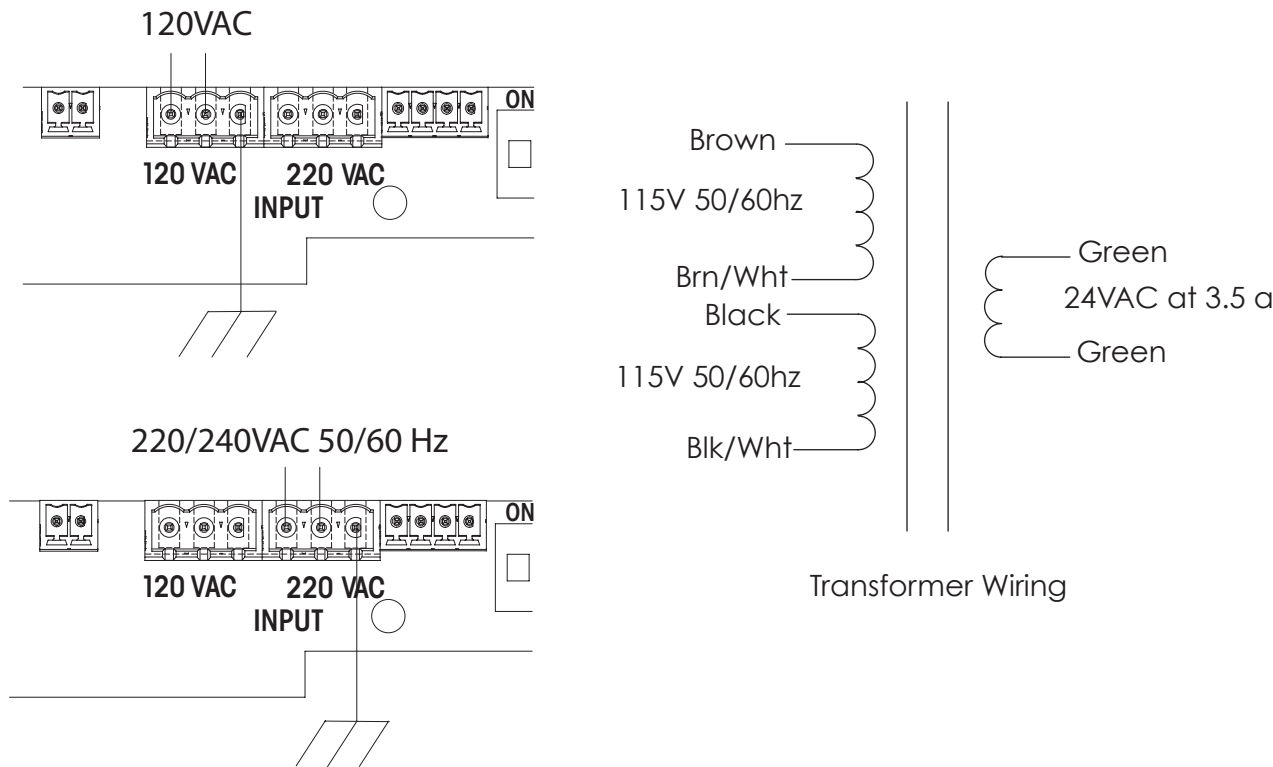
Exploded View for Replacement Parts



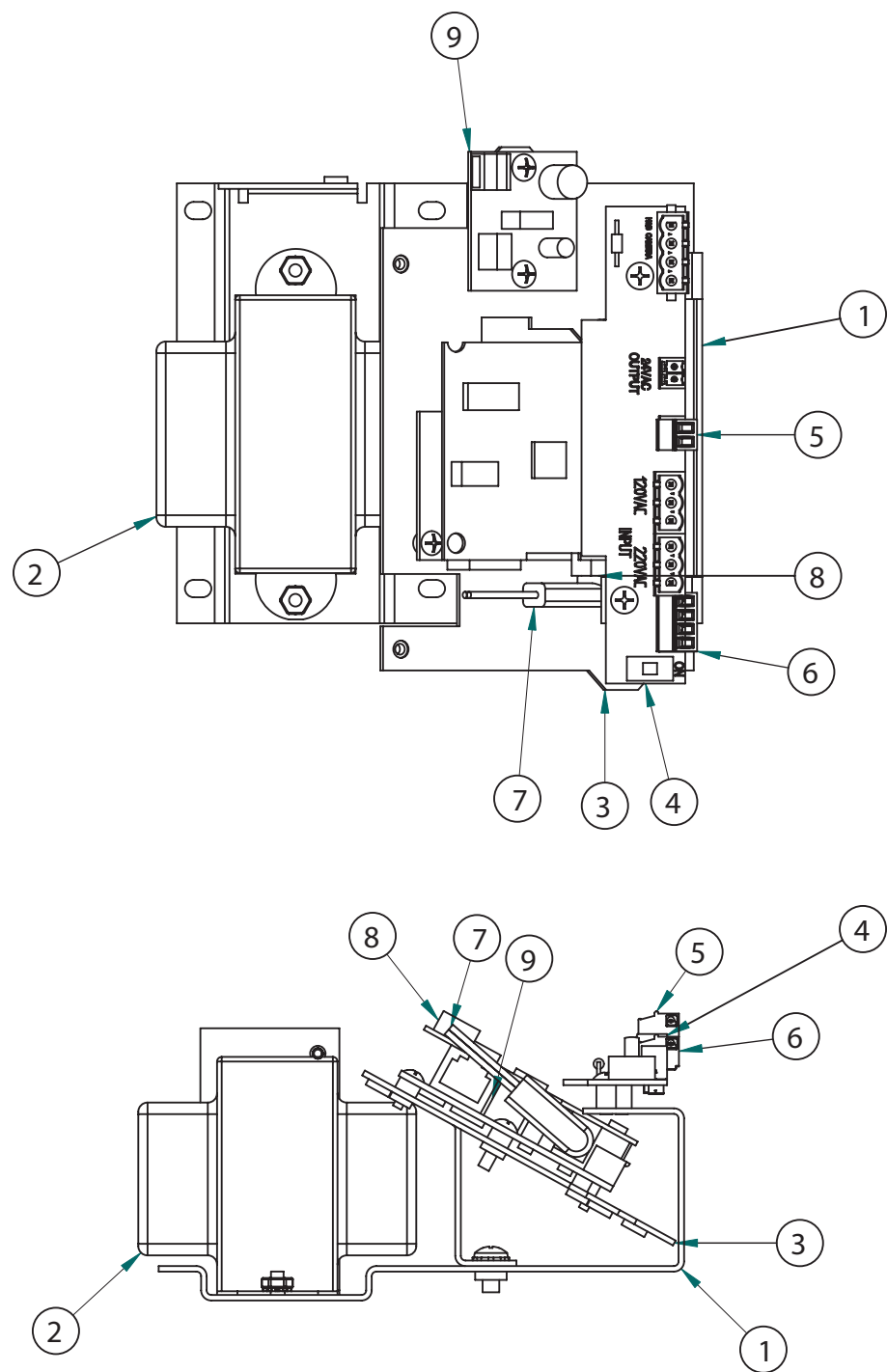
Replacement Parts List

Part Number		Description
1	RP40HGPB1000	PB24 Housing Assembly
2	RP40BRPBL24	900 MHz Bracket Assembly With Transformer and PCB
3	RPPB241000	Grounding Stud and Terminal Connector
4	RP70WPPH13	3 Position Incoming Power Plug

Power Connection



Exploded View for Replacement Parts



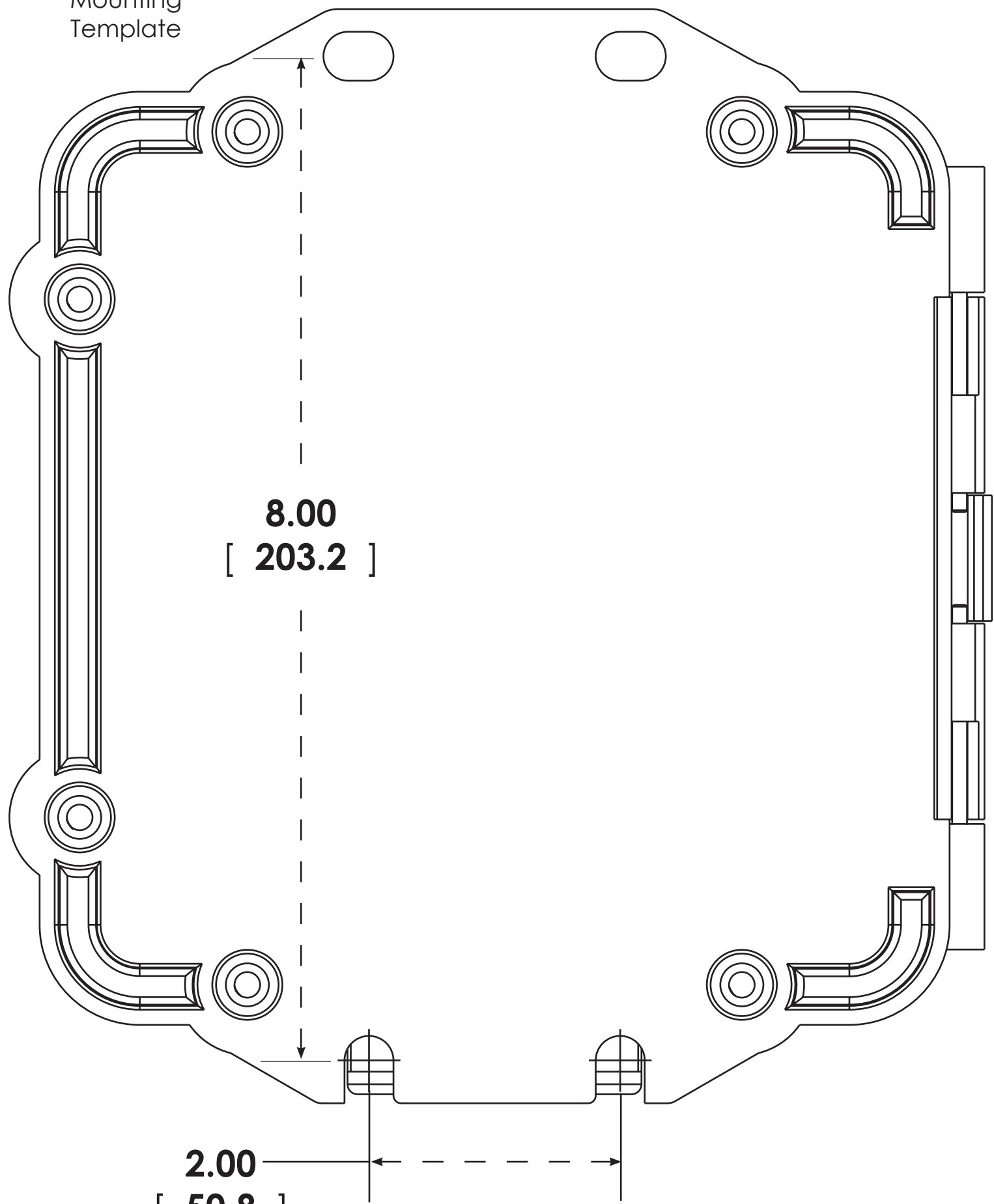
Replacement Parts List

Part Number		
1	RPVL2879	Wireless Base Bracket A
2	RP70TRANS11	96VA 220/110 TO 24 CE/UL TRANSFORMER
3	RPVL2885	Wireless box, bracket B
4	RP76PCBPB01	POWER BOX CONNECTION PCG
5	RP70WPPH08	3.81- 2 position Connector 1803578
6	RP70WPPH03	4 Position Connector 1803594
7	RP70CAPC02	12VDC POWER CONNECTOR - FEMALE
8	RP70AW9XB	Wireless 900 MHz Transmitter PCB
9	RP76RFPS	WIRELESS POWER SUPPLY PCB

Mounting
Template

8.00
[**203.2**]

2.00
[**50.8**]



Product Registration/Warranty

Thank you for choosing Moog Videolarm. We value your patronage and are solely committed to providing you with the highest quality products available and superior customer service.

Should a problem arise, rest assure that Moog Videolarm stands behind its products by offering impressive warranty plans: 3 Years on all Housings, Poles, Power Supplies, and Accessories and 5 Years on camera systems (SView, QView, Warriors), and InfraRed Illuminators.



Register Your Products Online

Take a few moments and validate your purchase via the Online Product Registration Form at
www.videolarm.com/productregistration.jsp

Register your recent Moog Videolarm purchases and benefit from the following:

- Simple and Trouble-Free RMA process
- Added into customer database to receive product updates / news
- Eliminate the need to archive original purchase documents:
Receipts, Purchase Orders, etc...